

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2005/000427

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01J 5/017, G06T 7/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01J, G06T, G06K, H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 3742867 A1 (FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV), 7 June 1989 (07.06.1989), column 1, line 33 - line 48; column 2, line 4 - line 24; column 2, line 62 - column 3, line 18, abstract	1-5
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A	WO 0200011 A1 (IDENTO ELECTRONICS BV), 3 January 2002 (03.01.2002), page 9, line 5 - page 10, line 18; page 11, line 35 - page 12, line 26, abstract	1-5
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A	DE 19548347 A1 (WESTFALIA SEPARATOR AG), 3 July 1997 (03.07.1997), figure 1, abstract	1-5
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

11 August 2005

Date of mailing of the international search report

17-08-2005

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PCT/SE 2005/000427

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1332667 A1 (LELY ENTERPRISES AG), 5 February 2002 (05.02.2002), paragraphs 0030 - 0032, abstract --	1-5
A	US 4805557 A (VAN DER LELY, A. ET AL), 21 February 1989 (21.02.1989), column 3, line 31 - column 5, line 29, figures 1-3, abstract -- -----	1-5

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 - 5

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Continuation of box No. III

The following separate inventions were identified:

I: Claims 1-5 directed to a calibration procedure where an absolute position are determined.

II: Claims 6-7 directed to thermal or infrared cameras.

III: Claims 8-21 directed to positioning of cameras so they are positioned below and behind the milking animal.

IV: Claims 22-55 directed to finding conjugate points for a stereoscopic calculation.

V: Claims 56-69 directed to an image processing device where a motion detection algorithm is used to reduce a search area.

VI: Claims 70-78 directed to a detection of defects on a milking animal.

VII: Claims 79-82 directed to a detection of defects on a camera lens.

INTERNATIONAL SEARCH REPORT

Information on patent family members

08/07/2005

International application No.

PCT/SE 2005/000427

DE	3742867	A1	07/06/1989	NONE		
WD	0200011	A1	03/01/2002	AU	6793501 A	08/01/2002
				DE	60106248 D	00/00/0000
				EP	1294222 A,B	26/03/2003
				NL	1015559 C	00/00/0000
DE	19548347	A1	03/07/1997	NL	1004756 A,C	01/09/1998
				SE	511596 C	25/10/1999
				SE	9603990 A	23/06/1997
EP	1332667	A1	05/02/2002	EP	1332668 A	06/08/2003
				US	20030145794 A	07/08/2003
US	4805557	A	21/02/1989	DE	3773686 A	21/11/1991
				EP	0229682 A,B	22/07/1987
				SE	0229682 T3	
				JP	2516610 B	24/07/1996
				JP	62166824 A	23/07/1987
				NL	8600076 A	17/08/1987